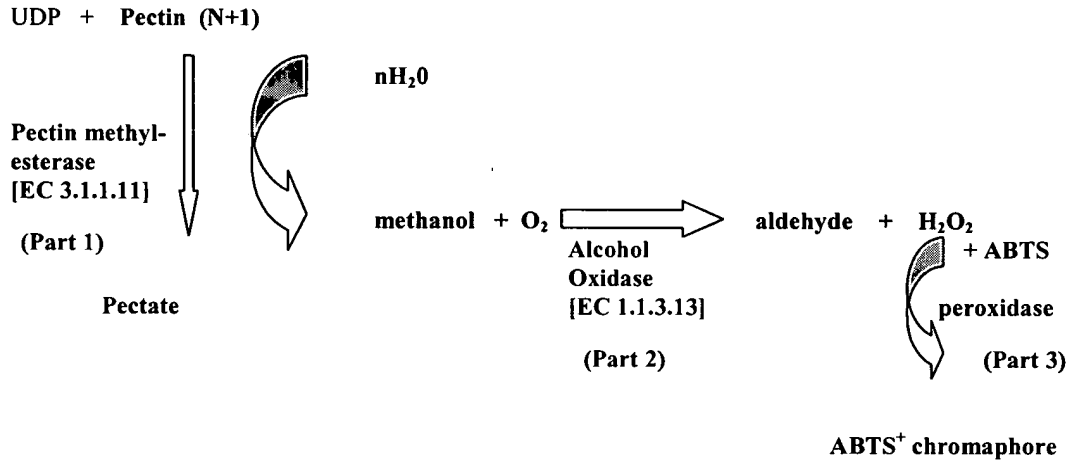


Figure 1

The pectin esterase (PE) enzyme reaction, and the two downstream reactions that occur due to the resulting release of methanol:



**Substrates:**

Part 1: pectin and UDP, in the presence of water

Part 2: methanol and O<sub>2</sub>

Part 3: aldehyde, hydrogen peroxide and ABTS

**Products:**

Part 1: pectate, plus release of methanol

Part 2: hydrogen peroxide

Part 3: ABTS<sup>+</sup>